Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

- 1. (withdrawn) An iron chelator delivery system for treating iron overload in the heart, comprising an iron chelator and a lipid carrier, wherein said lipid carrier further comprises an antibody for targeting at least one cardiac protein.
- 2. (withdrawn) The iron chelator delivery system of claim 1, wherein the iron chelator is selected from the group consisting of Desferrioxamine, deferipone, PIH, Rhodotorulic acid, HBED, HBPD, 2,3-dihydroxybenzoic acid, DTPA, and iron chelators produced by bacterial siderophores.
- 3. (withdrawn) The iron chelator delivery system of claim 1, wherein the concentration of the iron chelator is about 1 μM to about 100 mM.
- 4. (withdrawn) The iron chelator delivery system of claim 1, wherein the lipid carrier is a liposome having at least one bilayer.
- 5. (withdrawn) The iron chelator delivery system of claim 4, wherein the liposome is multilamellar or unilamellar.
- 6. (withdrawn) The iron chelator system of claim 4, wherein the size of the liposome is about 10 nm to about 10 microns.
- 7. (withdrawn) An iron chelator delivery system for targeting the heart, comprising an iron chelator and a lipid carrier, wherein the lipid carrier further comprises cationic or anionic charge groups.

8. (withdrawn) The iron chelator system of claim 1, wherein the antibody comprises an antibody specific to a cardiac protein, and wherein the cardiac protein is selected from the group consisting of cardiac myocyte proteins, vasculature proteins, endothelial cells, and matrix proteins.

9. (canceled)

- 10. (Currently amended) The iron chelator system of claim <u>3431</u>, wherein the liver cell targeting agent is selected from the group consisting of asialoglycoprotein, galactose and mannose.
- 11. (withdrawn) The iron chelator system of claim 4, wherein the iron chelator is encapsulated between the liposome bilayers or intercalated within the bilayers.
- 12. (withdrawn) The iron chelator system of claim 4, wherein the iron chelator is encapsulated within the central cavity of the liposome.

13-29. (cancelled)

30. (withdrawn) The iron chelator delivery system of claim 1 wherein the cardiac protein is selected from the group consisting of myosin, troponin, and myosin light chain.

31. (cancelled)

- 32. (Currently amended) The iron chelator delivery system of claim <u>3431</u>, wherein the liver <u>carbohydrateeell</u> receptor is selected from the group consisting of a hepatocyte asialoglycoprotein receptor, a Kupffer cell mannose receptor, and a liver endothelial cell <u>mannose receptor</u>.
- 33. (Currently amended) The iron chelator delivery system of claim <u>3431</u>, wherein the iron chelator is selected from the group consisting of Desferrioxamine, deferipone, PIH, Rhodotorulic acid, HBED, HBPD, 2,3-dihydroxybenzoic acid, DTPA, and iron chelators produced by bacterial siderophores.

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34. (Currently amended). <u>AnThe</u> iron chelator delivery system of claim 31, for treating iron overload in the liver, comprising an iron chelator and a lipid carrier, wherein said lipid carrier further comprises a liver cell targeting agent for targeting at least one liver carbohydrate receptor and wherein the concentration of the iron chelator is about 1 μM to about 100 mM.

- 35. (Currently amended) The iron chelator delivery system of claim <u>3431</u>, wherein the lipid carrier is a liposome.
- 36. (Withdrawn) The iron chelator delivery system of claim 7, wherein the iron chelator is selected from the group consisting of Desferrioxamine, deferipone, PIH, Rhodotorulic acid, HBED, HBPD, 2,3-dihydroxybenzoic acid, DTPA, and iron chelators produced by bacterial siderophores.
- 37. (Withdrawn) The iron chelator delivery system of claim 7, wherein the concentration of the iron chelator is about 1 μM to about 100 mM.
- 38. (Withdrawn) The iron chelator delivery system of claim 7, wherein the lipid carrier is a liposome.
- 39. (Withdrawn) A method of preventing iron overload in a mammal, the method comprising:

administering to a mammal at risk of iron overload an iron chelator delivery system comprising an iron chelator and a lipid carrier, wherein the iron chelator delivery system is administered in a sufficient amount to prevent iron overload in the mammal.

- 40. (Withdrawn) The method of claim 39, wherein the iron chelator wherein the iron chelator is selected from the group consisting of desferrioxamine, deferipone, PIH, rhodotorulic acid, HBED, HBPD, 2,3-dihydroxybenzoic acid, DTPA, and iron chelators produced by bacterial siderophores
- 41. (Withdrawn) The method of claim 39, wherein the lipid carrier is a liposome having at least one bilayer.

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42. (New) The iron chelator delivery system of claim 34, wherein the liver carbohydrate receptor is a Kupffer cell mannose receptor.

43. (New) The iron chelator delivery system of claim 34, wherein the iron chelator is in the lipid carrier.

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